

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A protein having the an amino acid sequence shown in SEQ ID NO: 1 ~~in SEQUENCE LISTING~~, or a protein having the same amino acid sequence as shown in SEQ ID NO:1 except that one or more amino acids are substituted or deleted, or that one or more amino acids are inserted or added, which has an activity to transfer *N*-acetylglucosamine to a non-reducing terminal of Gal $\beta$ 1-4Glc or Gal $\beta$ 1-4GlcNAc group through  $\beta$ 1,3-linkage.

2. (Currently Amended) The protein according to claim 1, which has the amino acid sequence shown in SEQ ID NO: 3 ~~in SEQUENCE LISTING~~, or a protein having the same amino acid sequence as shown in SEQ ID NO: 1 except that one or more amino acids are substituted or deleted, or that one or more amino acids are inserted or added.

3. (Original) The protein according to claim 1 or 2, wherein said protein has an amino acid sequence having a homology of not less than 70% to said amino acid sequence shown in SEQ ID NO:1 or 3.

4. (Original) The protein according to claim 3, wherein said protein has an amino acid sequence having a homology of not less than 90% to said amino acid sequence shown in SEQ ID NO:1 or 3.

5. (Original) The protein according to claim 4, wherein said protein has an amino acid sequence having the same amino acid sequence as shown in SEQ ID NO:1 or 3 except that one or several amino acids are substituted or deleted, or that one or several amino acids are inserted or added.

6. (Original) The protein according to claim 5, which has the amino acid sequence shown in SEQ ID NO:3.

7. (Currently Amended) A protein comprising a region having the amino acid sequence recited in ~~any one of claims 1 to 6~~ claim 1, which has an activity to transfer *N*-acetylglucosamine to a non-reducing terminal of Gal $\beta$ 1-4Glc or Gal $\beta$ 1-4GlcNAc group through  $\beta$ 1,3-linkage.

8. (Currently Amended) A nucleic acid coding for said protein according to ~~anyone of claims 1 to 7~~ claim 1.

9. (Original) The nucleic acid according to claim 8, which hybridizes with the nucleic acid having the nucleotide sequence shown in SEQ ID NO:2 or 4 under stringent conditions.

10. (Original) The nucleic acid according to claim 9, which has the nucleotide sequence shown in SEQ ID NO:2 or 4.

11. (Currently Amended) A recombinant vector ~~containing~~  
comprising the nucleic acid according to ~~anyone of claims 8 to 10~~  
claim 8, which can express said nucleic acid in a host cell.

12. (Currently Amended) A cell into which said nucleic acid  
according to ~~anyone of claims 8 to 10~~ claim 8 is introduced, which  
expresses said nucleic acid.

13. (Currently Amended) A nucleic acid for measurement of  
said nucleic acid according to ~~anyone of claims 8 to 10~~ claim 8,  
which specifically hybridizes with said nucleic acid according to  
~~any one of claims 8 to 10~~ claim 8.

14. (Currently Amended) The nucleic acid for measurement of  
nucleic acid, according to claim 13, which has a sequence  
complementary to a part of ~~said a~~ nucleic acid ~~of claim 10~~ having a  
nucleotide sequence as shown in SEQ ID NO:2 or 4.

15. (Original) The nucleic acid for measurement of nucleic acid,  
according to claim 13 or 14, which is a probe or a primer.

16. (Original) The nucleic acid for measurement of nucleic  
acid, according to claim 15, which has not less than 15 bases.

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Original) A method for diagnosis of a cancer and/or tumor, comprising determining the amount of said protein according to claim 6 or determining the expression amount of the gene coding for said protein, in (a) sample cell(s) separated from body.

21. (Original) The method according to claim 20, wherein said sample cell(s) is(are) originated from a digestive organ, and wherein said method is for diagnosis of a cancer and/or tumor of the digestive organ.

22. (Original) The method according to claim 21, wherein said sample cell(s) is(are) originated from colon, and wherein said method is for diagnosis of colon cancer.

23. (Currently Amended) A method for measuring said nucleic acid according to ~~anyone of claims 8 to 10~~ claim 8, comprising ~~making contact between said nucleic acid for measurement of nucleic acid, according to anyone of claims 13 to 16, and said nucleic acid~~

~~according to any one of claims 6 to 8 so as to hybridize them hybridizing the nucleic acid of claim 8, and measuring the hybridized nucleic acid.~~

24. (Currently Amended) A method for measuring said nucleic acid according to ~~anyone of claims 8 to 10~~ claim 8, comprising ~~carrying out a nucleic acid amplification method amplifying a nucleic acid by using as primers a pair of nucleic acids for measurement of nucleic acid, according to anyone of claims 13 to 16~~, and using as a template said nucleic acid according to ~~anyone of claims 8 to 10~~ claim 8, and measuring amplification product.

25. (Currently Amended) The method for diagnosis of a cancer and/or tumor according to ~~anyone of claims 20 to 22~~ claim 20, comprising ~~making contact between said nucleic acid for measurement of nucleic acid, according to anyone of claims 13 to 16 hybridizing a nucleic acid, and mRNA transcribed from the gene of said protein according to claim 6 having an amino acid sequence of SEQ ID NO:3 or cDNA generated by using said mRNA as a template so as to hybridize them, and measuring the hybridized nucleic acid, so as to measure the expression amount of the gene of said protein according to claim 6.~~

26. (Currently Amended) The method for diagnosis of a cancer and/or tumor according to ~~anyone of claims 20 to 22~~ claim 20, comprising carrying out a nucleic acid-amplification method using as primers a pair of nucleic acids for measurement of nucleic acid, ~~according to any one of claims 13 to 16~~, and using as a template the mRNA transcribed from the a gene of said a protein ~~according to claim 6~~ having an amino acid sequence of SEQ ID NO:3 or cDNA generated by using said mRNA, and measuring amplification product, so as to measure the expression amount of the gene of said protein ~~according to claim 6~~.

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)